

CLAIM AMENDMENTS

Claims 1-20 (canceled).

Claim 21 (new): A plastic water and beverage bottle adapted for preserving a liquid, comprising:

a liquid container having an exterior surface and comprising a plastic made container body having a liquid chamber for storing said liquid therein and an opening communicating with said liquid chamber, and a plastic made container cap detachably sealing at said opening of said container body to enclose said liquid chamber; and

a protective arrangement integrally provided on said liquid container, comprising:

a nano titanium oxide integrally formed on said liquid container for blocking ultra-violet light entering into said liquid chamber of said liquid container; and

a far infrared ray emitter comprising ceramic powders mixing with said nano titanium oxide to integrally provide at said liquid container, wherein said far infrared ray emitter is adapted for emitting far infrared rays penetrating into said liquid chamber to depolarize negative ions of said liquid, in such a manner that said exterior surface of said liquid container forms a germ barrier for keeping said liquid in said liquid container in a germ-free manner.

Claim 22 (new): The plastic water and beverage bottle, as recited in claim 21, wherein said far infrared ray emitter is mixed with said nano titanium oxide to form an anti-germ solution integrally coated on said exterior surfaces of said container body and said container cap.

Claim 23 (new): The plastic water and beverage bottle, as recited in claim 21, wherein said protective arrangement is integrally mixed with a raw plastic material to integrally form said container body and said container cap of said liquid container.

Claim 24 (new): The plastic water and beverage bottle, as recited in claim 23, wherein said far infrared ray emitter is in 1:10,000 weight ratio with said raw material of said liquid container and said nano titanium oxides is in 1:10,000 weight ratio with said raw plastic material of said liquid container.

Claim 25 (new): The plastic water and beverage bottle, as recited in claim 21, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 26 (new): The plastic water and beverage bottle, as recited in claim 22, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 27 (new): The plastic water and beverage bottle, as recited in claim 23, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 28 (new): The plastic water and beverage bottle, as recited in claim 24, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 29 (new): A process of manufacturing a plastic water and beverage bottle which comprises the steps of:

(a) providing a liquid container having an exterior surface and comprising a plastic made container body having a liquid chamber for storing said liquid therein and an opening communicating with said liquid chamber, and a plastic made container cap detachably sealing at said opening of said container body to enclose said liquid chamber;

(b) mixing a predetermined amount of ceramic powders of far infrared ray emitter with a nano titanium oxide to form an anti-germ solution, wherein said nano titanium oxide is for blocking ultra-violet light entering into said liquid chamber of said liquid container, and said infrared ray emitter is adapted for emitting far infrared rays penetrating into said liquid chamber to depolarize negative ions of said liquid; and

(c) integrally applying said anti-germ solution at said liquid container such that said exterior surface of said liquid container forms a germ barrier for keeping said liquid in said liquid container in a germ-free manner.

Claim 30 (new): The process, as recited in claim 29, wherein in step (c), said anti-germ solution is integrally coated on said exterior surfaces of said container body and said container cap.

Claim 31 (new): The process, as recited in claim 29, wherein said anti-germ solution is integrally mixed with a raw plastic material to integrally form said container body and said container cap of said liquid container.

Claim 32 (new): The process, as recited in claim 31, wherein said far infrared ray emitter is in 1:10,000 weight ratio with said raw material of said liquid container and said nano titanium oxides is in 1:10,000 weight ratio with said raw plastic material of said liquid container.

Claim 33 (new): The process, as recited in claim 29, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 34 (new): The process, as recited in claim 30, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 35 (new): The process, as recited in claim 31, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.

Claim 36 (new): The process, as recited in claim 32, wherein said far infrared ray emitter and said nano titanium oxide constitutes 5% by weight of said protective arrangement and water constitutes 95% by weight of said protective arrangement.